

MATERIAL SAFETY DATA SHEET

MSDS Name: EPOCAP 19174 PART A
MSDS Number: 19174-1
Version Number: E
MSDS Date: JUN-30-2005
Page Number: 1 of 7

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: EPOCAP 19174 PART A
Hazard Rating: Health: 3 Fire: 2 Reactivity: 0 PPI:

Company Identification: ROYAL ADHESIVES & SEALANTS LLC
600 CORTLANDT STREET
BELLEVILLE NJ 07109-3384

Contact: BRUCE WEINMAN
Telephone/Fax: (973) 751-3000 (973) 751-8407
Emergency Phone (24 Hour): ENVIRONMENTAL SPECIALIST
(973) 751-3000
Chemtrec (24 Hour): (800) 424-9300
Preparer: B. WEINMAN
ENVIRONMENTAL SPECIALIST

Product Class: EPOXY
Trade Name: EPOCAP 19174 PART A
Product Code: 19174-1

SECTION II - INGREDIENT AND HAZARD INFORMATION

| Hazardous Ingredients | CAS Number |
|-----------------------|--------------|
| EPOXY RESIN | 25068-38-6 |
| TRADE SECRET | TRADE SECRET |
| BENZYL ALCOHOL | 100-51-6 |
| ANTIMONY TRIOXIDE | 1309-64-4 |
| HYDRATED ALUMINA | TRADE SECRET |
| CARBON BLACK | TRADE SECRET |
| POLYDIMETHYLSILOXANE | TRADE SECRET |

*** ALL Ingredients in this product are listed in the T.S.C.A. Inventory

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SECTION III - HAZARDS IDENTIFICATION

EYE CONTACT:

PRODUCT MAY BE SEVERELY IRRITATING TO THE EYES.

SKIN CONTACT:

PRODUCT IS IRRITATING TO THE SKIN. PROLONGED OR REPEATED CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS. PRODUCT MAY CAUSE SKIN SENSITIZATION. SKIN SENSITIZATION MAY BE EVIDENCED AS RASHES, ESPECIALLY HIVES.

INHALATION:

PRODUCT MAY CAUSE IRRITATION TO THE NOSE, THROAT AND RESPIRATORY TRACT. MAY PRODUCE CNS (CENTRAL NERVOUS SYSTEM) DEPRESSION. EARLY TO MODERATE CNS DEPRESSION MAY BE EVIDENCED BY HEADACHE, NAUSEA, GIDDINESS, AND DIZZINESS; IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR.

INGESTION:

PRODUCT IS SLIGHTLY TOXIC AND MAY BE HARMFUL IF SWALLOWED.

AGGRAVATED MEDICAL CONDITIONS:

PREEXISTING SKIN AND EYE DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. PREEXISTING SKIN OR LUNG ALLERGIES MAY INCREASE THE CHANCE OF DEVELOPING INCREASED ALLERGY SYMPTOMS FROM EXPOSURE TO THIS PRODUCT.

HEALTH HAZARD INFORMATION:

OTHER HEALTH INFORMATION (EPOXY RESIN AND BGE):

CHRONIC STUDIES: RECENT 2 YEAR BIOASSAYS IN MICE EXPOSED BY THE DERMAL ROUTE TO EPOXY RESIN, THE DIGLYCIDYL ETHER OF BISPHENOL A (DGBPA), OR TO RESINS PREDOMINANTLY OF DGBPA HAVE YIELDED VERY LIMITED EVIDENCE OF WEAK CARCINOGENICITY. DGBPA IS A COMPONENT OF THE RESIN IN THIS PRODUCT. THE AUTHORS OF THIS WORK CONCLUDED THAT THE RENAL TUMOR EVIDENCE WITH THIS RESIN "WAS OF NO BIOLOGICAL SIGNIFICANCE" AND THAT THE RESIN "IS NOT A SYSTEMIC CARCINOGEN WHEN APPLIED TO THE DORSAL SKIN OF CF 1 MICE." IARC CONCLUDED THAT DGBPA WAS NOT CLASSIFIABLE AS A CARCINOGEN (IARC GROUP 3) BASED ON THE FOLLOWING: HUMAN AND ANIMAL EVIDENCE BOTH INADEQUATE.

MUTAGENICITY: BOTH THE RESIN AND DGBPA, HAVE PROVED TO BE INACTIVE WHEN TESTED BY IN VIVO MUTAGENICITY ASSAYS. THEY HAVE BOTH SHOWN ACTIVITY BY THE IN VITRO MICROBIAL MUTAGENICITY SCREENING AND HAVE BOTH PRODUCED CHROMOSOMAL ABERRATIONS IN CULTURED RAT LIVER CELLS. THE SIGNIFICANCE OF THIS INFORMATION TO MAN IS UNKNOWN.

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BGE HAS BEEN REPORTED TO BE MUTAGENIC IN IN-VITRO TESTS. TESTS IN MICE GAVE MIXED RESULTS (DOMINANT LETHAL TESTS).

HAZARDOUS FILLER WARNING FOR CARBON BLACK:

THIS FORMULA CONTAINS HAZARDOUS FILLERS WHICH ARE NOT HAZARDOUS IN A WET OR ENCAPSULATED STATE. HOWEVER, IF A FORMULA CONTAINING A HAZARDOUS FILLER IS REDUCED TO A RESPIRABLE FRACTION BY GRINDING OR PUTTING INTO AN AIRBORNE POWDER, THE POWDER IS CONSIDERED A HAZARDOUS MATERIAL. IARC CLASSIFICATION FOR CARBON BLACK POWDER IS GROUP 2B (POSSIBLY CARCINOGENIC TO HUMANS).

HAZARDOUS FILLER WARNING FOR ANTIMONY TRIOXIDE:

THIS FORMULA CONTAINS HAZARDOUS FILLERS WHICH ARE NOT HAZARDOUS IN A WET OR ENCAPSULATED STATE. HOWEVER, IF A FORMULA CONTAINING A HAZARDOUS FILLER IS REDUCED TO A RESPIRABLE FRACTION BY GRINDING OR PUTTING INTO AN AIRBORNE POWDER, THE POWDER IS CONSIDERED A HAZARDOUS MATERIAL. IARC CLASSIFICATION FOR ANTIMONY TRIOXIDE POWDER IS GROUP 2B (POSSIBLY CARCINOGENIC TO HUMANS).

SECTION IV - FIRST AID MEASURES

EYE CONTACT:

FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN.

SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING AND WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. LAUNDRY CONTAMINATED CLOTHING. DESTROY LEATHER ARTICLES INCLUDING SHOES.

INHALATION:

REMOVE PERSON TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING.

INGESTION:

DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION.

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SECTION V - FIRE-FIGHTING MEASURES

Flammability Class: IIIA
Flash Range: Not Available
Pensky-Martens Closed Cup ASTM D 93
194F
Explosive Range: Not Available

FIRE-FIGHTING MEASURES:

USE WATER FOG, DRY CHEMICAL, FOAM, CARBON DIOXIDE.
WATER OR FOAM MAY CAUSE FROTHING. USE WATER TO COOL FIRE-EXPOSED
CONTAINERS. IF A LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY
TO DISPERSE THE VAPORS AND PROVIDE PROTECTION TO THE PEOPLE
ATTEMPTING TO STOP THE LEAK. USE FULL TURNOUT GEAR INCLUDING
SELF-CONTAINED BREATHING APPARATUS (SCBA).
FIRE EXPOSED CONTAINERS MAY BUILD PRESSURE AND BURST.

SECTION VI - ACCIDENTAL RELEASE MEASURES

SPILLS:

SHUT OFF ALL IGNITION SOURCES AND DIKE SPILL TO CONTAIN AND
PREVENT ENTRY INTO SEWERS OR WATER SOURCES. ABSORB SPILLED
MATERIAL AND PLACE IN CLOSED CONTAINER FOR DISPOSAL.
CONTROLLED INCINERATION. HANDLE IN COMPLIANCE WITH LOCAL, STATE,
AND FEDERAL ENVIRONMENTAL PROTECTION AGENCY REGULATIONS.

SECTION VII - HANDLING AND STORAGE

STORAGE CONDITIONS:

STORE IN A COOL, DRY PLACE. KEEP AWAY FROM OPEN FLAMES AND HIGH
TEMPERATURES.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

| Occupational Exposure Limits | ACGIH TLV | ACGIH TLV-C | ACGIH STEL | OSHA STEL | OSHA PEL |
|------------------------------|-----------|-------------|------------|-----------|----------|
| EPOXY RESIN | N/est | N/est | N/est | N/est | N/est |

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| | | | | | |
|----------------------|---------------|-------|-------|-------|---------------|
| TRADE SECRET | N/est | N/est | N/est | N/est | N/est |
| BENZYL ALCOHOL | N/est | N/est | N/est | N/est | N/est |
| ANTIMONY TRIOXIDE | 0.5000 mg/M3 | N/est | N/est | N/est | 0.5000 mg/M3 |
| HYDRATED ALUMINA | 10.0000 mg/M3 | N/est | N/est | N/est | 15.5000 mg/M3 |
| CARBON BLACK | 3.5000 mg/M3 | N/est | N/est | N/est | N/est |
| POLYDIMETHYLSILOXANE | N/est | N/est | N/est | N/est | N/est |

PERSONAL PROTECTIVE EQUIPMENT:

IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROL OR VENTILATION, WEAR A RESPIRATOR APPROVED BY NIOSH/MSHA WHENEVER EXPOSED TO FUMES OR VAPORS. COMPLY WITH OSHA 1910.134 (CFR). SELF-CONTAINED BREATHING APPARATUS IN HIGH CONCENTRATIONS. LOCAL EXHAUST IS RECOMMENDED. USE CHEMICAL RESISTANT PROTECTIVE GLOVES, CHEMICAL SPLASH GOGGLES. CHEMICAL RESISTANT PROTECTIVE CLOTHING TO MINIMIZE EXPOSURE; CHEMICAL SPLASH APRON, FULL FACE SHIELD. EYE WASH STATION AND SAFETY SHOWER SHOULD BE AVAILABLE FOR EMERGENCY USE.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------|----------------|
| Form: | LIQUID |
| Appearance/Color: | BLACK |
| Boiling Range: | Not Available |
| Vapor Pressure (mmHg): | Not Available |
| Melting Point: | Not Applicable |
| Evaporation Rate: | Unavailable |
| % Volatile | Not Available |
| Specific Gravity: | 1.69 |

SECTION X - STABILITY AND REACTIVITY

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Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

REACTIVITY:

INCOMPATIBILITY:

OXIDIZING AGENTS, STRONG MINERAL ACIDS, STRONG LEWIS ACIDS, BASES, MERCAPTANS, AMINES.

CONDITIONS TO AVOID:

HIGH TEMPERATURES.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES, ACIDS.

SECTION XI - TOXICOLOGICAL INFORMATION

| Lethal Dose Information (ppm) | Oral | Skin | Inhale | LC50 |
|-------------------------------|------|------|--------|------|
|-------------------------------|------|------|--------|------|

SECTION XII - ECOLOGICAL INFORMATION

NO INFORMATION IS AVAILABLE.

SECTION XIII - DISPOSAL CONSIDERATIONS

RCRA CONSIDERATIONS:

PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH FEDERAL AND LOCAL REGULATIONS.

SECTION XIV - TRANSPORT INFORMATION

UN Number
UN Pack Group
UN Class
ICAO/IATA Class
Shipping Name: PLASTIC LIQUID, NOS
ADR/RID Class: DRUMS AND PAILS NOT REGULATED
DOT Hazard Class
Technical Name

SECTION XV - REGULATORY INFORMATION

SARA TITLE III SECTION 313:

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This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

| Chemical Name | CAS Number | % |
|-------------------|------------|-------|
| ANTIMONY TRIOXIDE | 1309-64-4 | 1 - 5 |

TSCA STATUS:

ALL INGREDIENTS CONTAINED IN THIS PRODUCT ARE ON THE TSCA INVENTORY.

SECTION XVI - OTHER INFORMATION

DISCLAIMER:

ALTHOUGH THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN (HEREINAFTER "INFORMATION") ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE CORRECT AS OF THE DATE HEREOF, ROYAL ADHESIVES & SEALANTS LLC MAKES NO REPRESENTATIONS AS TO THE COMPLETENESS OR ACCURACY THEREOF. INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING SAME WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSES PRIOR TO USE. IN NO EVENT WILL ROYAL ADHESIVES & SEALANTS LLC BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OF ANY NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

MATERIAL SAFETY DATA SHEET

MSDS Name: EPOCAP 19174 PART B
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SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: EPOCAP 19174 PART B
Hazard Rating: Health: 2 Fire: 1 Reactivity: 0 PPI:

Company Identification: ROYAL ADHESIVES & SEALANTS LLC
600 CORTLANDT STREET
BELLEVILLE NJ 07109-3384

Contact: BRUCE WEINMAN
Telephone/Fax: (973) 751-3000 (973) 751-8407
Emergency Phone (24 Hour): ENVIRONMENTAL SPECIALIST
(973) 751-3000
Chemtrec (24 Hour): (800) 424-9300
Preparer: B. WEINMAN
ENVIRONMENTAL SPECIALIST

Product Class: MODIFIED ALIPHATIC AMINE
Trade Name: EPOCAP 19174 PART B
Product Code: 19174-2

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredients: CAS Number

TRADE SECRET: TRADE SECRET

BENZYL ALCOHOL: 100-51-6

*** ALL Ingredients in this product are listed in the T.S.C.A. Inventory

SECTION III - HAZARDS IDENTIFICATION

EYE CONTACT:

PRODUCT MAY BE SEVERELY IRRITATING TO THE EYES. VAPORS MAY BE IRRITATING.

SKIN CONTACT:

MAY BE SEVERELY IRRITATING TO THE SKIN. MAY CAUSE SKIN SENSITIZATION. MAY BE TOXIC IF ABSORBED THROUGH SKIN. SKIN SENSITIZATION MAY BE EVIDENCED BY RASHES, ESPECIALLY HIVES.

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INHALATION:

VAPORS MAY BE SEVERELY IRRITATING TO THE UPPER RESPIRATORY TRACT. MAY CAUSE RESPIRATORY TRACT SENSITIZATION. RESPIRATORY TRACT SENSITIZATION MAY BE EVIDENCED BY WHEEZING WITH SHORTNESS OF BREATH AND COUGH.

INGESTION:

MAY BE SEVERELY IRRITATING TO MOUTH, THROAT AND STOMACH.

AGGRAVATED MEDICAL CONDITIONS:

PREEXISTING EYE, SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

HEALTH HAZARD INFORMATION:

REPEATED EXPOSURES TO HIGH VAPOR CONCENTRATIONS TO A COMPONENT OF THIS PRODUCT MAY CAUSE INJURY TO THE LIVER, KIDNEY AND RESPIRATORY TRACT. THIS COMPONENT EXHIBITED EVIDENCE FOR WEAK MUTAGENIC ACTIVITY IN STANDARD IN VITRO TEST SYSTEMS. THIS COMPONENT DID NOT EXHIBIT CARCINOGENIC POTENTIAL IN LIFETIME MOUSE SKIN PAINTING STUDIES.

SECTION IV - FIRST AID MEASURES

EYE CONTACT:

FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES WHILE LIFTING UPPER AND LOWER EYE LIDS. GET IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT:

WIPE EXCESS FROM SKIN AND FLUSH WITH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. LAUNDRER CLOTHING, DISCARD LEATHER CLOTHING.

INHALATION:

REMOVE PERSON TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING. ADMINISTER 3-4 GLASSES OF MILK OR WATER. GET IMMEDIATE MEDICAL ATTENTION. NOTHING BY MOUTH IF VICTIM IS DROWSY, CONVULSING, OR UNCONSCIOUS.

SECTION V - FIRE-FIGHTING MEASURES

Flammability Class IIIA
Flash Range: 194.1F (90.1C)
Pensky-Martens Closed Cup ASTM D 93

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Explosive Range: Not Available

FIRE-FIGHTING MEASURES:

USE WATER FOG, DRY CHEMICAL, FOAM, CARBON DIOXIDE.
WATER OR FOAM MAY CAUSE FROTHING. USE WATER TO COOL FIRE-EXPOSED CONTAINERS. IF A LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS AND PROVIDE PROTECTION TO THE PEOPLE ATTEMPTING TO STOP THE LEAK. USE FULL TURNOUT GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS (SCBA). DELAYED LUNG DAMAGE (PULMONARY EDEMA) CAN BE EXPERIENCED AFTER EXPOSURE TO COMBUSTION PRODUCTS, SOMETIMES HOURS AFTER THE EXPOSURE.

SECTION VI - ACCIDENTAL RELEASE MEASURES

SPILLS:

RECOVER SPILLED MATERIAL AND PLACE IN SUITABLE CONTAINERS FOR RECYCLE OR DISPOSAL.

SECTION VII - HANDLING AND STORAGE

STORAGE CONDITIONS:

STORE IN A COOL, DRY PLACE. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

| Occupational Exposure Limits | ACGIH TLV | ACGIH TLV-C | ACGIH STEL | OSHA STEL | OSHA PEL |
|------------------------------|-----------|-------------|------------|-----------|----------|
| TRADE SECRET | N/est | N/est | N/est | N/est | N/est |
| BENZYL ALCOHOL | N/est | N/est | N/est | N/est | N/est |

PERSONAL PROTECTIVE EQUIPMENT:

IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROL OR VENTILATION, WEAR A RESPIRATOR APPROVED BY NIOSH/MSHA WHENEVER EXPOSED TO FUMES OR VAPORS. COMPLY WITH OSHA 1910.134 (CFR). SELF-CONTAINED BREATHING APPARATUS IN HIGH CONCENTRATIONS. LOCAL EXHAUST IS RECOMMENDED.
USE CHEMICAL RESISTANT PROTECTIVE GLOVES, CHEMICAL SPLASH GOGGLES.

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CHEMICAL RESISTANT PROTECTIVE CLOTHING TO MINIMIZE EXPOSURE;
CHEMICAL SPLASH APRON, FULL FACE SHIELD. EYE WASH STATION AND
SAFETY SHOWER SHOULD BE AVAILABLE FOR EMERGENCY USE.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Form: LIQUID
Odor: AMINE
Boiling Range: Not Available
Vapor Pressure (mmHg): Not Available
Melting Point: Not Applicable
Evaporation Rate: Unavailable

% Volatile: Not Available
Specific Gravity: 0.96

SECTION X - STABILITY AND REACTIVITY

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

REACTIVITY:

INCOMPATIBILITY:

OXIDIZING AGENTS, CLEANING SOLUTIONS SUCH AS CHROMERGE/AQUA REGIA.
CONDITIONS TO AVOID:
HIGH TEMPERATURES.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES, AMMONIA.

SECTION XI - TOXICOLOGICAL INFORMATION

| Lethal Dose Information (ppm) | Oral | Skin | Inhale | LC50 |
|-------------------------------|------|------|--------|------|
|-------------------------------|------|------|--------|------|

SECTION XII - ECOLOGICAL INFORMATION

NO INFORMATION IS AVAILABLE.

SECTION XIII - DISPOSAL CONSIDERATIONS

RCRA CONSIDERATIONS:

THIS PRODUCT IF DISPOSED OF IN THE PURCHASED FORM IS NOT CONSIDERED

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RCRA HAZARDOUS.

SECTION XIV - TRANSPORT INFORMATION

| | |
|------------------|---------------------|
| UN Number | |
| UN Pack Group | |
| UN Class | |
| ICAO/IATA Class | NOT REGULATED |
| IMDG Class | NOT REGULATED |
| Shipping Name | PLASTIC LIQUID, NOS |
| ADR/RID Class | NOT REGULATED |
| DOT Hazard Class | |
| Technical Name | |

SECTION XV - REGULATORY INFORMATION

TSCA STATUS:

ALL INGREDIENTS CONTAINED IN THIS PRODUCT ARE ON THE TSCA INVENTORY.

SECTION XVI - OTHER INFORMATION

DISCLAIMER:

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